

Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

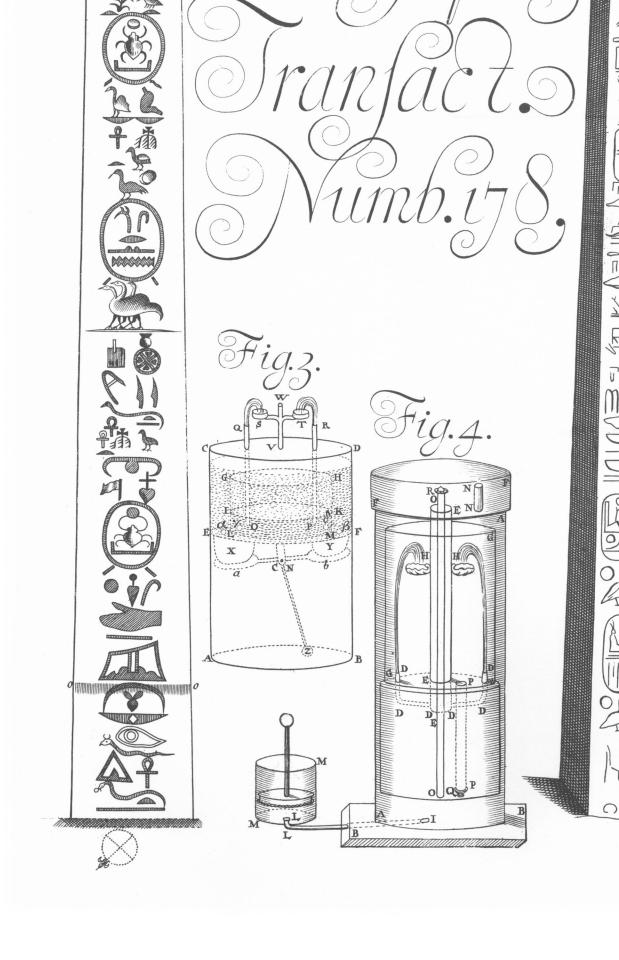
Read more about Early Journal Content at http://about.jstor.org/participate-jstor/individuals/early-journal-content.

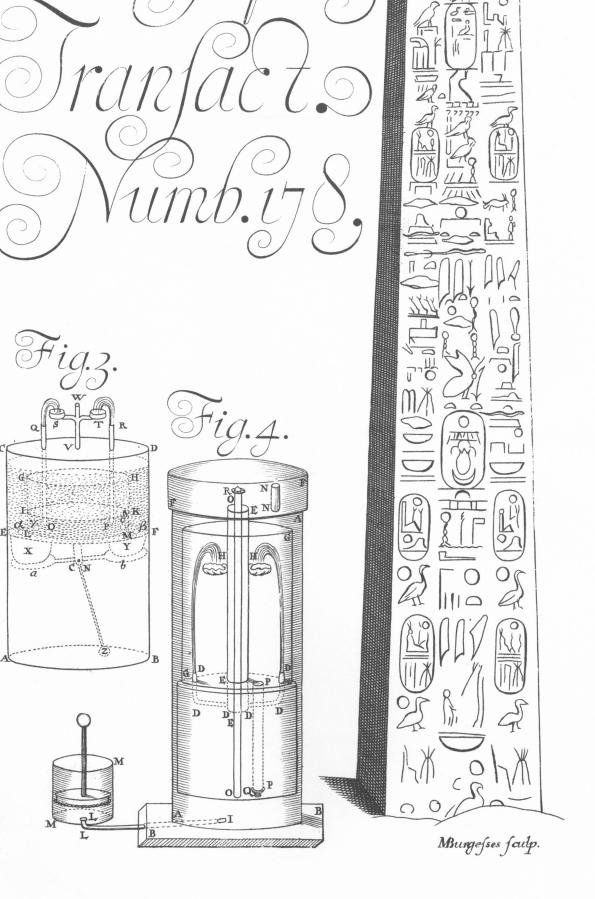
JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

RON NO

SIIIEN MEN - SEVUIVII CHONOR

fig.4. Н RO NO





hibebantur, quam aliis recentioribus plurimis, mediocris quidem longitudinis, quarum maximæ semissem pedis non excedebant, sed gracilioribus & vivacibus, animadvertebamus, quod mirum, declinationem acus à pristina nec in uno minuto discrepare, sed in quavis meridiana exacte cum priori convenire, ad Occas. scilicet 5°. 5′. An autem interea temporis ulterius processerit, ut nunc in situ retrogrado ejus deviatio deprehensa suerit, quod certe casu evenisse potuisset, non liquet, cum nec temere istud statuere, quin in eam sententiam, quod stationarius (procul dubio circularis motus) in eodem puncto permanserit, pronius abire velimus.

Ita D. Eimmartus perscripsit ad amicum suum Andream Arnoldum, qui isthæc Regiæ Societati Londinensi, Fautrici olim suæ, lubens meritoque transmittit.

A Letter, subscribed W. Tenon, concerning Dr Papin's new Water-Engine.

SIR,

HE other day, upon reading in the Transations, a description of the effects of a Water-Engin, invented by Dr Papin, and propounded as a Probleme to find out the contrivance, there came into my mind the following thought. I do not think it is the same with his, nor so good, but such as it is I send you, because variety of fancies gives hints many times to better new inventions.

Tab. 1. Fig. 3. ABDE signifies a cylindrical Vessel, closed

closed on every side, and divided into two rooms by the floor EF.

GLMH, is another Cylindrical Vessel within that upper room, cemented with its mouth downwards to the floor, and full of water up to the surface IK; the upper part thereof GIKH, being full of Air.

20, RP two Pipes, open above and below, and let through the upper room into this Vessel, and reaching

almost down to the floor EF.

 $\mathcal{O}W$ a Pipe open above and below, and let into the upper room. These Pipes must be close joyned round about them to the floors $\mathcal{C}D$, and $\mathcal{G}H$.

 X, Υ , two little hemispherical bladders, prepared with Oyl or some Oyly substance (as Butter or Turpentine) against water, and cemented with their Mouths upward to the floor EF underneath.

a, g two valves opening out of the upper room into the bladders.

y, A two other valves opening out of the bladders into the inner Vessel above.

 $N \gtrsim$ a pendulum playing upon the center N, and having two battledoor arms a b to iqueez alternately the

bladders which rest upon them.

Let the upper room be filled with water at the Pipe UW, and if the pendulum be made to play by Clockwork, the bladders will perpetually pump it thence into the inner Vessel, and the comprest Air GIKH in the upper part of that Vessel, pressing upon the surface of the water IK, will force it thence into the Pipes $O \mathcal{D}$, PR, out of which spouting with a perpetual even stream into the spoons S, T, it will run down by the Pipe WV, into the upper room again. The pendulum will play most easily when the upper room is filled to the top of the Pipe WV. Instead of the bladders may be other contrivances, as of suckers or little Organ bellows, playing alternately with two leaves about an axis in the middle. Eclipsis Sept. 16. 1685. W. Tenon. Ttt